598

SERVICE MANUAL

SANYO

MEMO-SCRIBER
TRANSCRIBING MACHINE

TRC 5050

142 311 06

WM-5360

598

SPECIFICATIONS

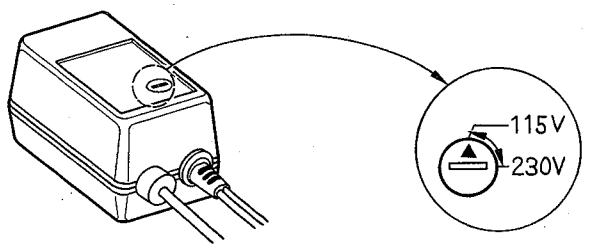
Recording System	AC Bias, 1/2 Track
Erasing System	DC Erasing
Quick Erase Ratio	Better than 50dB
Tape Speed	1.2cm/sec & 2.4cm/sec.
Tape Speed Control	
Slow	−20%
Fast	+20%
Rewind Time	120sec. (MC-60 cassette at 2.4cm/sec.)
Fast Forward Time	120sec. (MC-60 cassette at 2.4cm/sec.)
Wow & Flutter	0.5% RMS
Frequency Response	250 ~ 6,000Hz (Normal Tape)
Signal to Noise Ratio	Better than 40dB
Backspace Time	
Backspace Control Position 0	0sec.
Backspace Control Position 5	1 ~ 3sec. of Playback
Backspace Control Position 10	3 ~ 6sec. of Playback
Warning Tone Signal	800Hz
Output Power	1,000mW maximum
Power Source	
AC Adaptor	115/230V, 50/60Hz
Loudspeaker	77mm dia., 8ohms
Terminal Impedance	
External Microphone	10k-ohm
Earphone	8ohm
Semiconductors	
IC	5
Transistor	44
Photo-transistor	1
Diode	53
LED (Light Emitting Diode)	6
Dimensions	9-5/16"(W) x 2"(H) x 7-5/16"(D) (236 x 51 x 186mm)
Weight	1.4kg

—Specifications subject to change without notice.—

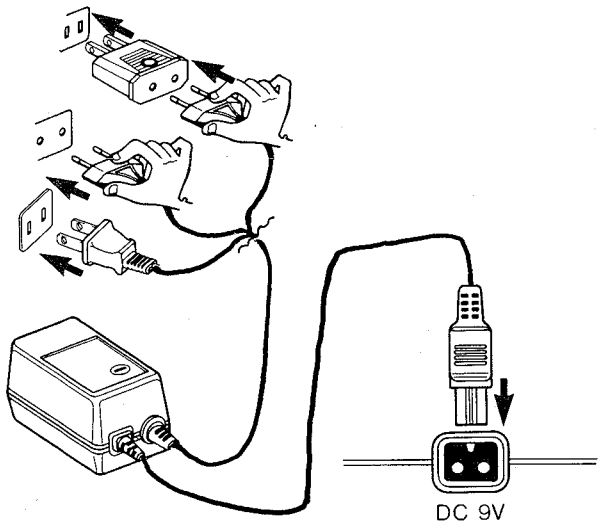
TRANSCRIBING INSTRUCTIONS

PREPARATION FOR USE

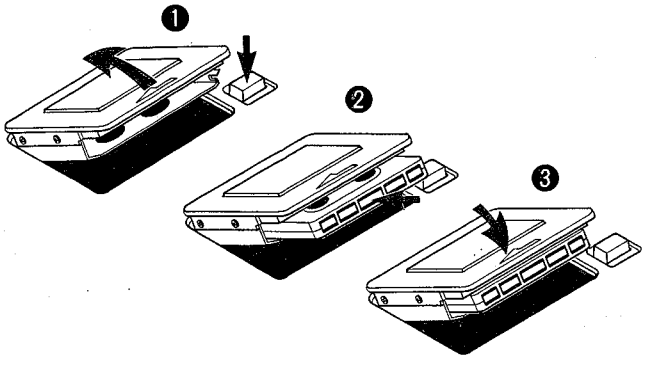
1. Before plugging the AC adaptor into AC outlet, adjust the VOLTAGE SELECTOR, located on the top of the adaptor, to correspond to your local voltage. This adaptor is factory adjusted for 230V AC, if you use this unit on 115V area, rotate the Voltage Selector to the "115V" position with a screwdriver or equivalent.



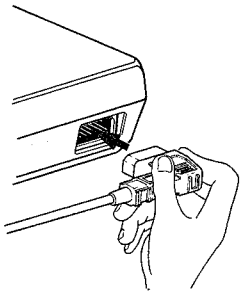
2. Plug the small end of the adaptor cord into the External Power Jack (marked DC 9V) on the rare side of the unit and the other end into an AC wall outlet.



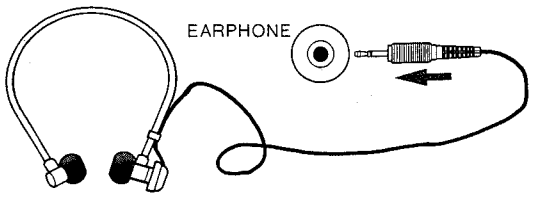
3. Press the EJECT button. Insert recorded cassette with the full reel to the right and side to be played up. If the dictator has not rewound the tape, push the REWIND button until the tape is rewound to its start position. Then push the STOP button.



4. Plug the foot control into its receptacle on the lower back side of the unit, with the cord running toward the right of the machine.

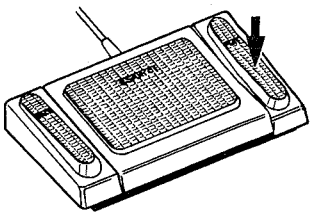


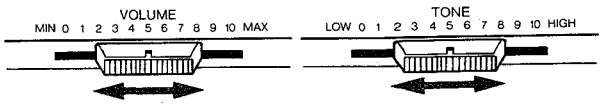
5. Plug the headset into its jack (marked EARPHONE) on the right side of the unit, then push down the Speaker Switch to disconnect the built-in speaker. Now you are ready to begin transcription.



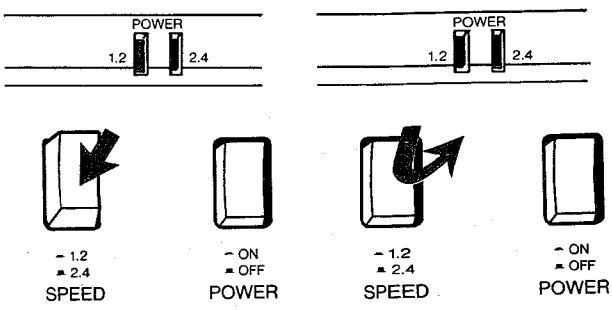
TRANSCRIPTION

1. To begin transcribing, press the right side (marked PLAY) of the foot control or PLAY button of the unit and adjust the Volume and Tone controls.



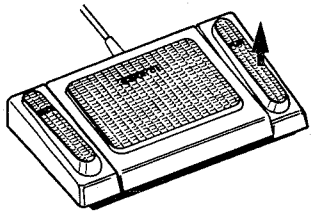


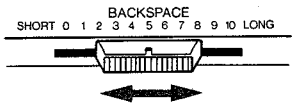
NOTE:
Set the Tape Speed Switch to the speed at which the tape was recorded. The tape should be played back at the same speed.



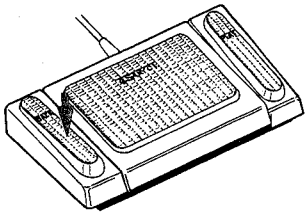
TRANSCRIBING INSTRUCTIONS (Continued)

2. Should you wish to review dictation, release the right side (marked PLAY) of the foot control. By doing this the tape will automatically backspace according to where the backspace control is set. The backspace control on the unit will allow you to adjust this automatic backspace feature for your convenience.

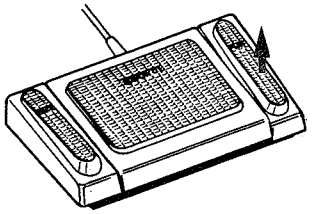




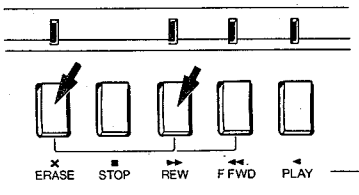
For longer reveiw of dictation, press the left side (marked BACK) of the foot control and the tape will backspace continuously until the foot control is released.

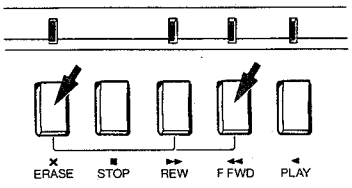


3. To pasue, release the pressure on the right side (marked PLAY) of the foot control. Continue in this start-and-stop method until the transcription is completed.



4. After transcription has been completed, the cassette can be erased by simultaneously pressing both the REWIND and ERASE buttons. When the end of the tape is reached while erasing, an audible tone will be heard. Press the STOP button to stop the erasing. Forward erasing can also be made by pressing both FAST FORWARD and ERASE buttons.



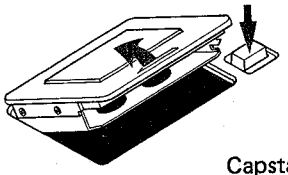


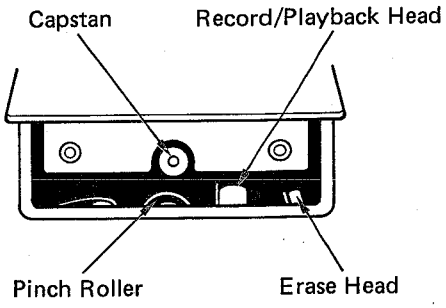
5. To turn the machine "OFF", depress the Power Switch and release.

MAINTENANCE

For your personal safety, be sure to disconnect the AC line cord before you proceed with cleaning the machine.

1. **Cleaning of the heads, the pinch roller and the capstan**
   To assure continued high performance from your "MEMO-SCRIBER", periodically clean the heads, the pinch roller and the capstan whenever an accumulation of dust and red-brown oxide particles are noticed.
   These particles may be cleaned with a cotton swab moisted with isopropyl alcohol (rubbing alcohol). To do this properly, depress the EJECT button and cassette compartment lid will open. Carefully rub the face of the heads and also the surface of the pinch roller and the capstan.





2. **Cleaning of the cabinet and the visible metal parts**
   Use a clean soft cloth, moistened with plain lukewarm water only. Never use benzol, benzine or other strong chemical cleaner since this could damage the finish of your unit. It is important that no liquid reaches the insides of the machine.

MECHANICAL ADJUSTMENTS

GENERAL REMARKS

Before adjusting the mechanism of the unit, wipe the tape contacting surfaces clean as well as the contacting surfaces of the driving parts with a cotton swab or a soft cloth soaked in alcohol. Trouble may occur because of oil and grease stains.

EQUIPMENT REQUIRED

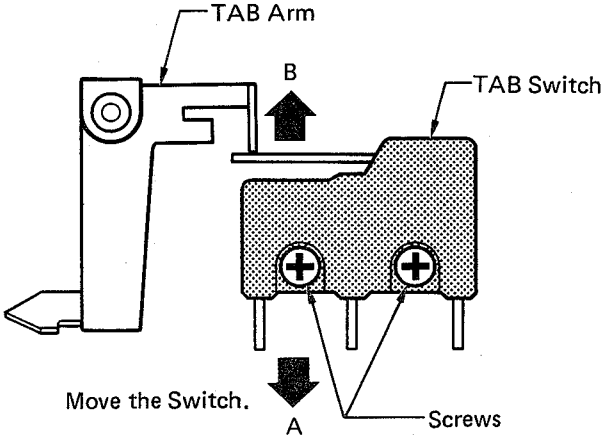
- Thickness gauge
- Microcassette tape
- Phillips screwdriver
- Round-nose pliers
- Tweezers
- Paint or glue

TAB SWITCH ADJUSTMENT

This switch can be checked whether the flaps, located on both sides of the microcassette, are removed or not by pressing the lever. Prepare for the microcassette tape with one of the flaps removed.

1. Insert the microcassette with the non-flap side facing to the Tab Arm into the cassette compartmnet.

2. Loosen the two screws fastening the Tab Switch. Move the Switch in the direction of Arrow A and slowly in the direction of Arrow B as illustrated.



3. Move the Switch to the position where it changes over and then, tighten the screws.

4. Turn over the microcassette and insert it into the cassette compartment. Then, check that the Tab Arm touches the flap of the microcassete and the Switch does not change over.

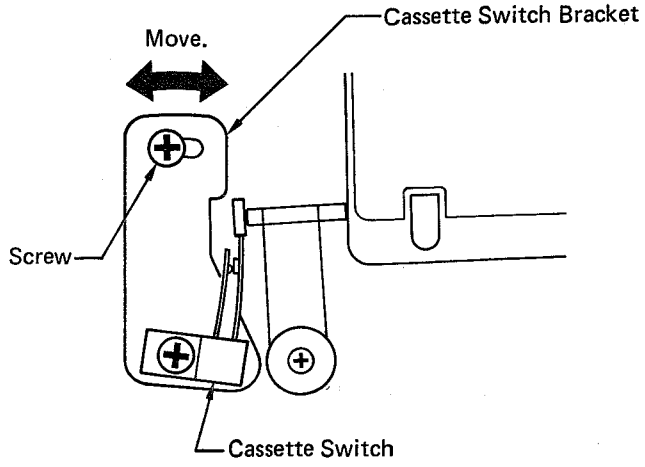
5. Turn over the microcassette several times and check that the Switch is not turned on with the flap side facing to the Tab Arm, and changes over with the non-flap side facing to the Tab Arm.

6. After the adjustment, tighten the fastening screws and secure them with paint or glue.

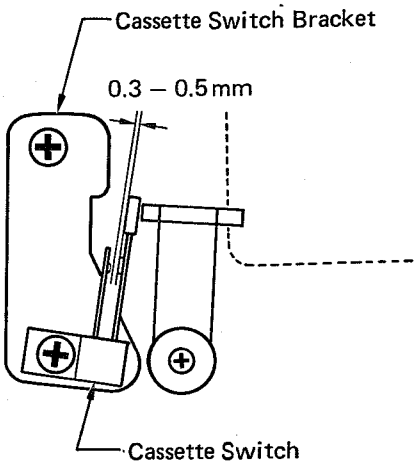
CASSETTE SWITCH ADJUSTMENT

This switch is normally opened and used to detect whether a microcassette tape is inserted into the cassette compartment or not.

1. Insert the microcassette tape into the cassette compartment and loosen the screws fastening the Cassette Switch Bracket. Position the Bracket by moving it as illustrated, so that the Switch is turned on. Then, tighten the fastening screw.



2. Press the Eject Button and take out the microcassete from the unit. Then, check to see that the switch contacts are opened by 0.3 – 0.5mm as illustrated.



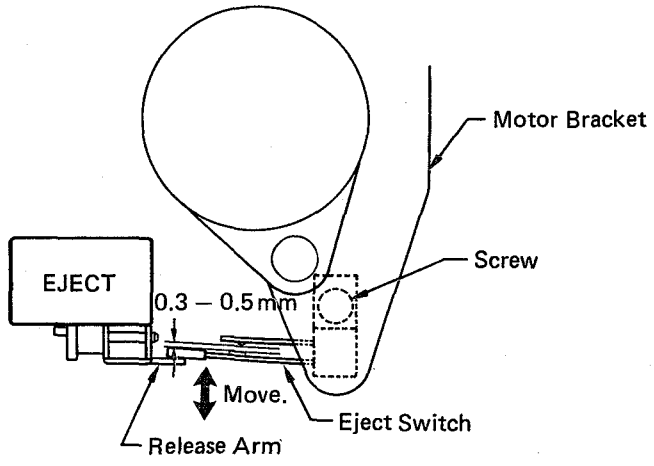
3. After the adjustment, tighten the fastening screw and secure it with paint or glue.

MECHANICAL ADJUSTMENTS (Continued)

EJECT SWITCH ADJUSTMENT

This switch is normally closed by the Release Arm.

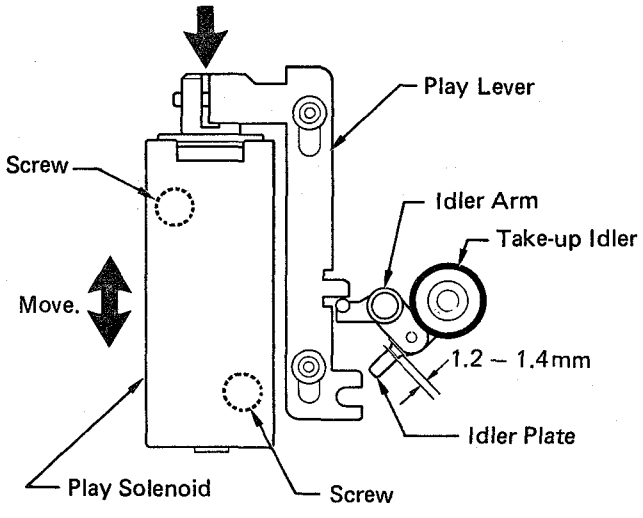
1. Lock the cassette compartment by pressing it down and slightly press the Eject Button until it stops.
2. Check to see that the clearance between the switch contacts is 0.3 – 0.5mm.
3. If necessary, loosen the screw fastening the Switch and move the Eject Switch to the specified position as illustrated.



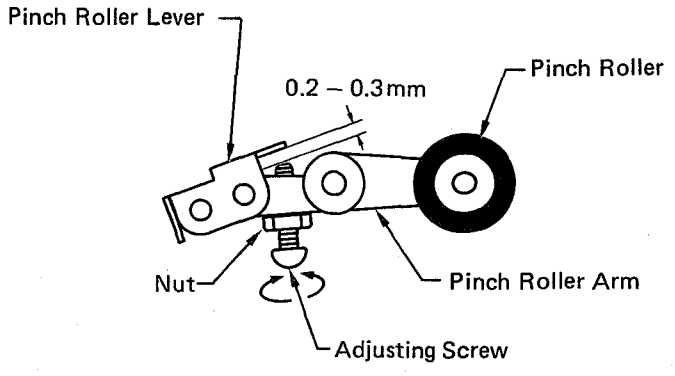
4. After the adjustment, tighten the fastening screw and secure it with paint or glue.

PLAY SOLENOID & PINCH ROLLER ADJUSTMENT

1. Insert the Plunger fully into the Play Solenoid and check to see that the Idler Plate protrudes by 1.2 – 1.4mm from the Idler Arm.
2. If necessary, loosen the two screws fastening the Play Solenoid and adjust the solenoid position by slowly moving the Solenoid with the Plunger fully inserted into the Solenoid as illustrated.



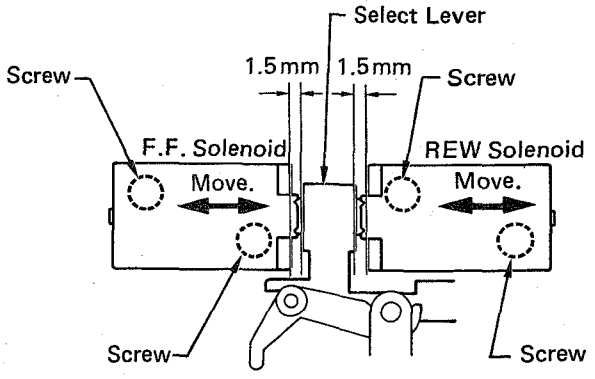
3. After the adjustment, tighten the fastening screws and secure them with paint or glue.
4. While keeping the Plunger inserted into the Play Solenoid, check to see that the clearance between the Pinch Roller Lever and the adjusting screw is 0.2 – 0.3mm as illustrated.



5. If necessary, loosen the holding nut and adjust the clearance by turning the adjusting screw.
6. After the adjustment, tighten the nut. Secure the nut and adjusting screw with paint or glue.

F.FWD & REWIND SOLENOIDS ADJUSTMENT

1. Check to see that the clearances between the Select Lever and the F.FWD Solenoid, and the Select Lever and the REW Solenoid are 1.5mm with the unit in the stop mode.
2. If necessary, loosen the four screws fastening each Solenoid and adjust the clearances by moving the F.FWD and REW Solenoids as illustrated.

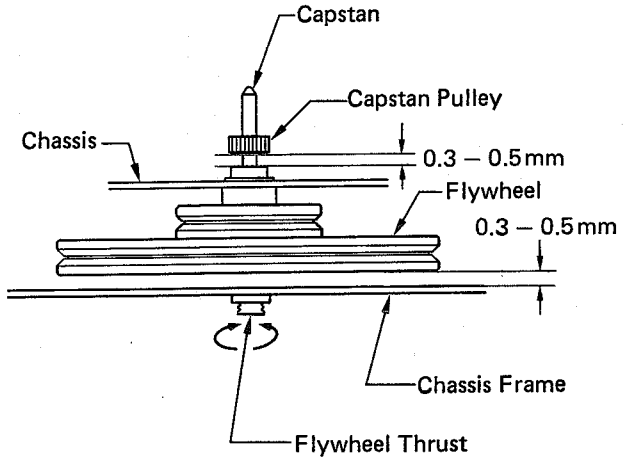


3. After the adjustment, tighten the fastening screws and secure them with paint or glue.

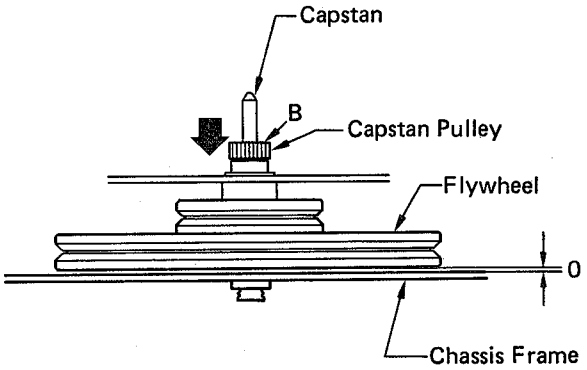
MECHANICAL ADJUSTMENTS (Continued)

CAPSTAN PULLEY MOUNTING

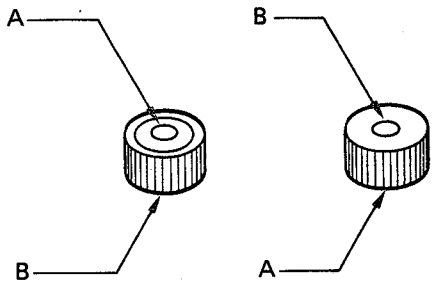
1. Each clearance between the Flywheel and the Chassis Frame, and the Capstan Pulley and the Capstan Holder should be 0.3 – 0.5mm as illustrated.



2. If necessary, insert the Capstan Pulley into the Capstan as illustrated.



A. Carefully observing the Capstan Pulley, the upper and lower faces of the Pulley are different. Faces A and B look as illustrated.



B. To obtain the clearance of "0" (zero) between the Flywheel and the Chassis Frame, slowly turn the Flywheel Thrust counter-clockwise.
Then, insert the Capstan Pulley with Face B facing up fully into the Capstan.

C. Turn the Flywheel Thrust clockwise by 180° (approx.) to obtain the specified clearance between the Flywheel and the Chassis Frame.

ELECTRICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- VTVM
- Frequency Counter
- Dummy Load (8 ohm)
- Test Tapes
  - * 3kHz Test Tape (Example: Olympus OA-W211) for Tape Speed Adjustment
  - * 3kHz Test Tape (Example: Olympus OA-A211) for Head Azimuth Adjustment
- Alignment Tool

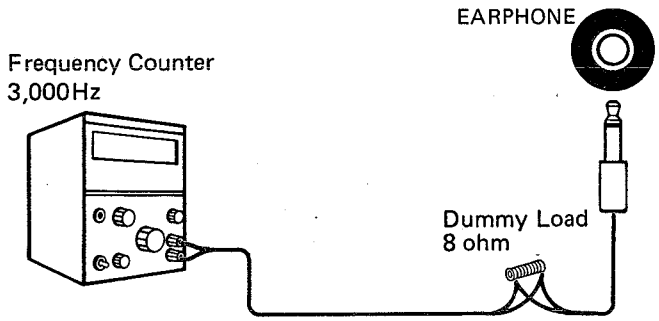
Before the Electrical Adjustments, set the unit as follows:

Speed Select Switch 2.4cm
Backspace Control ..... 0 (short)
Speed Control ..... 0 (click position)
Volume Control ..... Arbitrary
Tone Control ..... High

TAPE SPEED CONTROL ADJUSTMENT

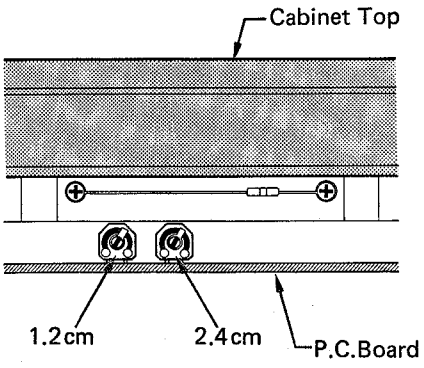
2.4cm/sec. Adjustment

1. Remove the Cabinet Bottom from the unit and connect the frequency counter to the earphone jack as illustrated.



2. Insert the test tape (Example: Olympus OA-W211) into the cassette compartment.

3. While playing back the test tape, adjust the tape speed by turning the potentiometer (P501) until the frequency counter reads 3000Hz.



1.2cm/sec. Adjustment

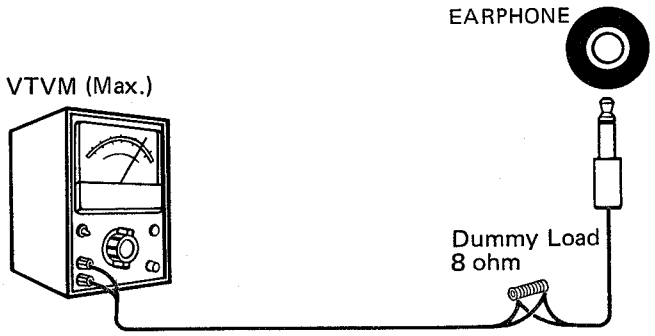
1. Set the tape speed to 1.2cm by pressing the Speed Select button. Then, adjust the tape speed by following the same method as described in "2.4cm Adjustment".

2. Turn the potentiometer (P502) until the frequency counter reads 1500Hz.

HEAD AZIMUTH ADJUSTMENT

1. Insert the test tape (Example: Olympus OA-A211) into the cassette compartment.

2. Connect the VTVM to the earphone jack as illustrated and turn the azimuth adjusting screw until the VTVM reads the maximum with the unit in the playback mode.



3. After the adjustment, secure the adjusting screw with paint or glue.

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141 6 1419 41716	Individual Carton	1
	141 6 1429 11000	Accessory Box	1
	141 6 1429 11400	Accessory Tube	1
	141 6 1449 65300	Pad, Right	1
	141 6 1449 65400	Pad, Left	1
	141 6 2519 10790	Poly Cover	1
	141 6 4559 00100	Serial No. Sheet	2
	ACCESSORIES		
	4 1529 70111	Head Set	1
	4 1919 71080	AC Adaptor	1
	4 1929 70061	Foot Control	1
	4 2369 72630	Adaptor Plug	1
	4 2419 72301	Micro Cassette	1
	142 6 4119 04800	Instruction Manual	1
	CABINET		
SP1	4 1519 70780	Speaker (8 ohm)	1
J3	4 2359 74031	Socket 2P (Power)	1
	141 0 1119 67601	Cabinet Top Assy	1
	141 0 1119 67701	Cabinet Bottom Assy	1
	141 0 1249 16600	Cassette Lid Assy	1
	141 2 1419 08343	Rating Plate	1
	141 2 1539 10700	Jack Plate	1
	141 2 1619 71800	Mode Button	2
	141 2 1639 36200	Volume Knob	4
	141 2 1749 02700	Cabinet Foot	4
	141 2 2449 32600	Volume Screen	4
	141 2 3519 50100	Control Bracket	1
	141 2 3529 90500	Spacer, P.C.B.	3
	141 2 3729 00800	Fix Speaker Bracket	2
	141 2 4219 03002	Screw M2.0x3	8
	141 2 4219 13000	Screw M3.0x25	4
	141 2 4469 34700	Cabinet Cushion	1
	141 2 8539 37300	Spring, Cassette	2
	101 3 1303 00411	Screw, Pan Hd. +M3.0x4	4
	102 3 1303 00811	Screw, Pan Hd. Tapping-1 +M3.0x8	7
	102 3 1303 01211	Screw, Pan Hd. Tapping-1 +M3.0x12	4
	127 3 1314 02018	PC Screw, Pan Hd.-1 +M1.4x2.0	4
	141 2 4219 16000	Screw M3.0x30	3
	141 2 7529 90400	Post, P.C.B.	1
	101 3 1703 00411	Screw, Bind Hd. +M3.0x4	2
	FUNCTION P.C.B. ASSY		
	4 1329 75851	Function P.C.B. Assy	1
	141 2 4729 04700	Staple 10	2
	141 2 4729 05000	Staple 5	5
C35	CA2 2 4100 M000V	Aluminum 0.22 μF 10V ±20%	1
CN5	4 2359 74960	Connector 2P	1
CN7	4 2359 74950	Connector 3P	1
	4 2369 71750	Connector 3P (A ~ C)	1
	4 2369 74970	Connector 1P (D)	1
	4 2369 73020	Connector 2P (E, F)	1
	4 2369 71750	Connector 3P (G ~ I)	1
	4 2369 73040	Connector 1P (J)	1
D33	202 5 2810 44210	Diode, DS442	1
	4 2439 71320	Jumper Lead 3P (CN3)	1
	4 2439 71330	Jumper Lead 4P (CN4)	1
P501	4 2229 73230	Potentiometer (B-30k)	1
P502	4 2229 73230	Potentiometer (B-30k)	1
R140	RP1 2 1121 JH000	Pretty 120 ohm 1/8W ±5%	1
R501	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R502	RP2 2 4121 JH000	Pretty 220k ohm 1/8W ±5%	1
R503	RP3 3 3121 JH000	Pretty 33k ohm 1/8W ±5%	1
R504	RP6 8 3121 JH000	Pretty 68k ohm 1/8W ±5%	1
S1	4 2319 74261	Select Switch	1
VR1	4 2229 71800	Volume Control (Tone, A-10k)	1
VR2	4 2229 71800	Volume Control (Volume, A-10k)	1
VR3	4 2229 71801	Volume Control (Backspace, C-10k)	1
VR4	4 2229 71802	Volume Control (Speed, K-50k)	1

Ref. No.	Part No.	Description	Q'ty
	CONTROL P.C.B. ASSY		
	4 1329 75861	Control P.C.B. Assy	1
	141 2 3519 52400	Spacer, LED	6
C204	CD4 7 5100 0000V	Electrolytic 4.7 μF 10V	1
C205	CD4 7 5100 0000V	Electrolytic 4.7 μF 10V	1
C206	CD2 2 5100 0000V	Electrolytic 2.2 μF 10V	1
C207	CM3 9 3500 K00SV	Mylar 0.039 μF 50V ±10%	1
C208	CD1 0 6100 0000V	Electrolytic 10 μF 10V	1
C209	CI1 0 4250 KE00C	Boundary 0.1 μF 25V ±10%	1
D204	4 2029 71440	Diode, 1SS95	1
D205	4 2029 71440	Diode, 1SS95	1
D211	4 2029 71440	Diode, 1SS95	1
D212	4 2029 71440	Diode, 1SS95	1
D213	202 5 2810 44210	Diode, DS442	1
D214	4 2029 71440	Diode, 1SS95	1
D217	202 5 2810 44210	Diode, DS442	1
D218	202 5 2810 44255	Diode, DS442	1
D219	202 5 9110 18820	Diode, 1S188	1
D220	4 2029 71420	LED, SLP155	1
D221	4 2029 71440	Diode, 1SS95	1
D222	4 2029 71440	Diode, 1SS95	1
D223	202 5 2810 44210	Diode, DS442	1
D224	4 2029 71440	Diode, 1SS95	1
D225	4 2029 71440	Diode, 1SS95	1
D226	202 5 9110 18820	Diode, 1S188	1
D227	4 2029 71440	Diode, 1SS95	1
D228	4 2029 71420	LED, SLP155 (Play)	1
D229	4 2029 71420	LED, SLP155 (F. FWD)	1
D230	4 2029 71440	Diode, 1SS95	1
D231	4 2029 71440	Diode, 1SS95	1
D233	4 2029 71440	Diode, 1SS95	1
D234	4 2029 71440	Diode, 1SS95	1
D238	4 2029 71440	Diode, 1SS95	1
D239	4 2029 71440	Diode, 1SS95	1
D240	4 2029 71440	Diode, 1SS95	1
D241	4 2029 71041	Diode, 5.6JB	1
D243	202 5 2810 44210	Diode, DS442	1
D244	4 2029 71430	LED, SLP255 (1.2 cm)	1
D245	4 2029 71430	LED, SLP255 (2.4 cm)	1
D246	4 2029 71420	LED, SLP155 (Erase)	1
D247	4 2029 71440	Diode, 1SS95	1
IC5	4 2069 71130	IC, BA843	1
	4 2439 71310	Jumper Lead 4P (CN8)	1
	4 2439 71280	Jumper Lead 9P (CN9, CN10)	1
	4 2439 71300	Jumper Lead 5P (CN11)	1
	4 2439 71290	Jumper Lead 7P (CN13)	1
Q208	203 5 7200 60850	Transistor, 2SA608	1
Q209	203 5 5100 53650	Transistor, 2SC536	1
Q210	203 5 5100 53650	Transistor, 2SC536	1
Q212	203 5 5100 53650	Transistor, 2SC536	1
Q213	4 2039 70631	Transistor, 2SC2236	1
Q214	203 5 5100 53650	Transistor, 2SC536	1
Q215	203 5 5100 53650	Transistor, 2SC536	1
Q216	4 2039 70631	Transistor, 2SC2236	1
Q217	203 5 5100 53650	Transistor, 2SC536	1
Q218	203 5 5100 53650	Transistor, 2SC536	1
Q219	203 5 7200 60850	Transistor, 2SA608	1
Q220	203 5 5100 53650	Transistor, 2SC536	1
Q221	4 2039 70631	Transistor, 2SC2236	1
Q222	203 5 5100 53660	Transistor, 2SC536	1
Q223	203 5 5100 53650	Transistor, 2SC536	1
Q225	203 5 5100 53650	Transistor, 2SC536	1
Q226	203 5 5100 53650	Transistor, 2SC536	1
Q227	203 5 5100 53650	Transistor, 2SC536	1
Q228	203 5 5100 53650	Transistor, 2SC536	1
Q229	203 5 5100 53650	Transistor, 2SC536	1
Q232	203 5 7200 60850	Transistor, 2SA608	1
R214	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R215	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R216	RP8 2 1121 JH000	Pretty 820 ohm 1/8W ±5%	1
R220	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R221	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	CONTROL P.C.B. ASSY		
R222	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R223	RP5 6 2121 JH000	Pretty 5.6k ohm 1/8W ±5%	1
R224	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R225	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R226	RP1 5 2121 JH000	Pretty 1.5k ohm 1/8W ±5%	1
R227	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R228	RP5 6 2121 JH000	Pretty 5.6k ohm 1/8W ±5%	1
R229	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R230	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R231	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R232	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R233	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R234	RP1 5 4121 JH000	Pretty 150k ohm 1/8W ±5%	1
R235	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R236	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R237	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R238	RP1 5 2121 JH000	Pretty 1.5k ohm 1/8W ±5%	1
R239	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R240	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R241	RP5 6 2121 JH000	Pretty 5.6k ohm 1/8W ±5%	1
R242	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R243	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R244	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R245	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R246	RP1 0 2121 JH000	Pretty 1k ohm 1/8W ±5%	1
R247	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R248	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R249	RD1 0 2251 JN000	Carbon 1k ohm 1/4W ±5%	1
R250	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
S2	4 2319 74250	Peck Switch (Play)	1
S3	4 2319 74250	Peck Switch (F. FWD)	1
S4	4 2319 74250	Peck Switch (Rewind)	1
S5	4 2319 74250	Peck Switch (Stop)	1
S6	4 2319 74250	Peck Switch (Erase)	1
	AMPLIFIER P.C.B. ASSY		
	4 1329 75871	Amplifier P.C.B. Assy	1
	141 2 3519 52500	LED Holder	1
C7	CC1 0 2500 KE00C	Ceramic 0.001 μF 50V ±10%	1
C8	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C12	CD1 0 5500 0000V	Electrolytic 1 μF 50V	1
C13	CD1 0 5500 0000V	Electrolytic 1 μF 50V	1
C14	CC2 2 2500 KE00C	Ceramic 0.0022 μF 50V ±10%	1
C15	CM4 7 3500 K00SV	Mylar 0.047 μF 50V ±10%	1
C16	CD2 2 6100 0000V	Electrolytic 22 μF 10V	1
C17	CD1 0 6500 0000V	Electrolytic 10 μF 50V	1
C22	CC2 2 0500 KD00C	Ceramic 22 pF 50V ±10%	1
C23	CM4 7 3500 K00SV	Mylar 0.047 μF 50V ±10%	1
C24	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C36	CD2 2 7160 0000V	Electrolytic 220 μF 16V	1
C37	CT1 0 4350 K00DV	Tantalum 0.1 μF 35V ±10%	1
C38	CC3 3 2500 KE00C	Ceramic 0.0033 μF 50V ±10%	1
C39	CD1 0 6100 0000V	Electrolytic 10 μF 10V	1
C40	CD2 2 5100 0000V	Electrolytic 2.2 μF 10V	1
C41	CD1 0 763A 0000V	Electrolytic 100 μF 6.3V	1
C42	CD4 7 663A 0000V	Electrolytic 47 μF 6.3V	1
C43	CC1 0 4250 ZG00C	Ceramic 0.1 μF 25V +80, −20%	1
C44	CD3 3 7100 0000V	Electrolytic 330 μF 10V	1
C46	CD1 0 763A 0000V	Electrolytic 100 μF 6.3V	1
C47	CC1 8 1500 KD00C	Ceramic 180 pF 50V ±10%	1
C48	CI6 8 3250 MF00C	Boundary 0.068 μF 25V ±20%	1
C49	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C50	CM1 8 3500 K00SV	Mylar 0.018 μF 50V ±10%	1
C51	CM1 8 3500 K00SV	Mylar 0.018 μF 50V ±10%	1
C52	CD2 2 5100 0000V	Electrolytic 2.2 μF 10V	1
C53	CD2 2 7100 0000V	Electrolytic 220 μF 10V	1
C54	CT6 8 4350 M00DV	Tantalum 0.68 μF 35V ±20%	1
C55	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C56	CD4 7 6100 0000V	Electrolytic 47 μF 10V	1
C57	CD1 0 5500 0000V	Electrolytic 1 μF 50V	1

Ref. No.	Part No.	Description	Q'ty
	AMPLIFIER P.C.B. ASSY		
C58	CM1 0 3500 K00SV	Mylar 0.01 μF 50V ±10%	1
C59	CM1 0 3500 K00SV	Mylar 0.01 μF 50V ±10%	1
C60	CM1 0 3500 K00SV	Mylar 0.01 μF 50V ±10%	1
C61	CM4 7 3500 K00SV	Mylar 0.047 μF 50V ±10%	1
C62	CM4 7 3500 K00SV	Mylar 0.047 μF 50V ±10%	1
C63	CM4 7 3500 K00SV	Mylar 0.047 μF 50V ±10%	1
C64	CD4 7 7100 0000V	Electrolytic 470 μF 10V	1
C65	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C66	CD1 0 5100 0000V	Electrolytic 1 μF 10V	1
C67	CD3 3 6100 0002V	Electrolytic 33 μF 10V	1
C68	CD2 2 7100 0000V	Electrolytic 220 μF 10V	1
C69	CT4 7 4350 K00DV	Tantalum 0.47 μF 35V ±10%	1
C70	CD1 0 6100 0000V	Electrolytic 10 μF 10V	1
C71	CD2 2 663A 0000V	Electrolytic 22 μF 6.3V	1
C72	CD1 0 8160 0000V	Electrolytic 1000 μF 16V	1
C79	CC1 0 4250 ZG00C	Ceramic 0.1 μF 25V +80, −20%	1
C82	CD1 0 8160 0000V	Electrolytic 1000 μF 16V	1
C83	CD1 0 5500 0002V	Electrolytic 1 μF 50V	1
CN1	4 2369 72350	Connector 15P	1
CN2	4 2369 73033	Connector 3P	1
CN3	4 2369 73033	Connector 3P	1
CN4	4 2369 73034	Connector 4P	1
CN5	4 2369 72992	Connector 2P	1
CN7	4 2369 72993	Connector 3P	1
CN8	4 2369 73034	Connector 4P	1
CN9	4 2369 73035	Connector 5P	1
CN10	4 2369 73034	Connector 4P	1
CN11	4 2369 73035	Connector 5P	1
CN12	4 2369 73036	Connector 6P	1
D3	4 2029 71440	Diode, 1SS95	1
D4	4 2029 71440	Diode, 1SS95	1
D5	4 2029 71440	Diode, 1SS95	1
D6	4 2029 71440	Diode, 1SS95	1
D10	4 2029 71440	Diode, 1SS95	1
D11	202 5 9150 02412	Diode, SLP24BT	1
D12	4 2029 71440	Diode, 1SS95	1
D13	4 2029 71440	Diode, 1SS95	1
D14	202 5 2810 44210	Diode, DS442	1
D15	202 5 2810 44210	Diode, DS442	1
D16	202 5 2810 44210	Diode, DS442	1
D17	4 2029 71440	Diode, 1SS95	1
D18	4 2029 71440	Diode, 1SS95	1
D19	4 2029 71440	Diode, 1SS95	1
D20	4 2029 71440	Diode, 1SS95	1
D21	202 5 2810 44210	Diode, DS442	1
D22	4 2029 71440	Diode, 1SS95	1
D23	202 5 2810 44210	Diode, DS442	1
D24	202 5 2810 44210	Diode, DS442	1
D25	202 5 2810 44210	Diode, DS442	1
D26	202 5 2810 44210	Diode, DS442	1
D29	4 2029 71440	Diode, 1SS95	1
D30	4 2029 71440	Diode, 1SS95	1
IC1	4 2069 70970	IC, LM1818	1
IC2	4 2069 70540	IC, TBA820	1
IC3	4 2069 70461	IC, LM324	1
J2	4 2359 73470	Jack 1P (Earphone)	1
Q4	203 5 5100 53650	Transistor, 2SC536	1
Q5	203 5 5100 53650	Transistor, 2SC536	1
Q6	203 5 5100 53650	Transistor, 2SC536	1
Q7	203 5 5100 53650	Transistor, 2SC536	1
Q8	203 5 5100 53650	Transistor, 2SC536	1
Q10	203 5 7200 60850	Transistor, 2SA608	1
Q11	203 5 5100 53650	Transistor, 2SC536	1
Q12	203 5 5100 53650	Transistor, 2SC536	1
Q13	203 5 5100 53650	Transistor, 2SC536	1
Q14	203 5 7200 60850	Transistor, 2SA608	1
Q15	203 5 5100 53650	Transistor, 2SC536	1
Q16	203 5 5100 53650	Transistor, 2SC536	1
Q17	203 5 5100 53650	Transistor, 2SC536	1
Q18	203 5 7200 60850	Transistor, 2SA608	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	AMPLIFIER P.C.B. ASSY		
Q19	203 5 5100 53650	Transistor, 2SC536	1
Q21	203 5 5100 53650	Transistor, 2SC536	1
Q22	203 5 5100 53650	Transistor, 2SC536	1
Q23	203 5 7200 60850	Transistor, 2SA608	1
R11	RP1 8 2121 JH000	Pretty 1.8k ohm 1/8W ±5%	1
R12	RP1 5 3121 JH000	Pretty 15k ohm 1/8W ±5%	1
R15	RP1 0 2121 JH000	Pretty 1k ohm 1/8W ±5%	1
R16	RP1 8 1121 JH000	Pretty 180 ohm 1/8W ±5%	1
R17	RP6 8 2121 JH000	Pretty 6.8k ohm 1/8W ±5%	1
R21	RP8 2 3121 JH000	Pretty 82k ohm 1/8W ±5%	1
R22	RP4 7 4121 JH000	Pretty 470k ohm 1/8W ±5%	1
R23	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R24	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R25	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R26	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R35	RP2 2 2121 JH000	Pretty 2.2k ohm 1/8W ±5%	1
R36	RP1 0 2121 JH000	Pretty 1k ohm 1/8W ±5%	1
R37	RP2 7 2121 JH000	Pretty 2.7k ohm 1/8W ±5%	1
R38	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R39	RD2 2 5251 JN000	Carbon 2.2M ohm 1/4W ±5%	1
R40	RP4 7 1121 JH000	Pretty 470 ohm 1/8W ±5%	1
R41	RP5 6 0121 JH000	Pretty 56 ohm 1/8W ±5%	1
R42	RP3 9 0121 JH000	Pretty 39 ohm 1/8W ±5%	1
R43	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R44	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R45	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R46	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R47	RP1 0 A121 JH000	Pretty 1 ohm 1/8W ±5%	1
R48	RP5 6 0121 JH000	Pretty 56 ohm 1/8W ±5%	1
R50	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R51	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R52	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R53	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R54	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R55	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R56	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R57	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R58	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R59	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R60	RP2 2 2121 JH000	Pretty 2.2k ohm 1/8W ±5%	1
R61	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R62	RP2 2 2121 JH000	Pretty 2.2k ohm 1/8W ±5%	1
R63	RP8 2 1121 JH000	Pretty 820 ohm 1/8W ±5%	1
R64	RP3 3 2121 JH000	Pretty 3.3k ohm 1/8W ±5%	1
R65	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R66	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R67	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R68	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R69	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R70	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R71	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R72	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R73	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R74	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R75	RP3 9 4121 JH000	Pretty 390k ohm 1/8W ±5%	1
R76	RP2 2 1121 JH000	Pretty 220 ohm 1/8W ±5%	1
R77	RP1 2 3121 JH000	Pretty 12k ohm 1/8W ±5%	1
R78	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R79	RP8 2 3121 JH000	Pretty 82k ohm 1/8W ±5%	1
R80	RP5 6 2121 JH000	Pretty 5.6k ohm 1/8W ±5%	1
R81	RP3 3 2121 JH000	Pretty 3.3k ohm 1/8W ±5%	1
R82	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R83	RP1 5 3121 JH000	Pretty 15k ohm 1/8W ±5%	1
R84	RP1 5 3121 JH000	Pretty 15k ohm 1/8W ±5%	1
R85	RP1 5 3121 JH000	Pretty 15k ohm 1/8W ±5%	1
R86	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R87	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R88	RP3 3 3121 JH000	Pretty 33k ohm 1/8W ±5%	1
R89	RP3 3 3121 JH000	Pretty 33k ohm 1/8W ±5%	1
R90	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1

Ref. No.	Part No.	Description	Q'ty
	AMPLIFIER P.C.B. ASSY		
R91	RP3 3 3121 JH000	Pretty 33k ohm 1/8W ±5%	1
R92	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R93	RP1 0 2121 JH000	Pretty 1k ohm 1/8W ±5%	1
R94	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R95	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R96	RP1 0 5121 JH000	Pretty 1M ohm 1/8W ±5%	1
R97	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R98	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R99	RP8 2 2121 JH000	Pretty 8.2k ohm 1/8W ±5%	1
R100	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R101	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R102	RP8 2 4121 JH000	Pretty 820k ohm 1/8W ±5%	1
R103	RP1 0 1121 JH000	Pretty 100 ohm 1/8W ±5%	1
R104	RP1 0 5121 JH000	Pretty 1M ohm 1/8W ±5%	1
R105	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R106	RP4 7 3121 JH000	Pretty 47k ohm 1/8W ±5%	1
R107	RP1 0 1121 JH000	Pretty 100 ohm 1/8W ±5%	1
R109	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R124	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R125	RP5 6 3121 JH000	Pretty 56k ohm 1/8W ±5%	1
R126	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R127	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
	GOVERNOR P.C.B. ASSY		
	4 2869 70480	Governor P.C.B. Assy	1
CN13	4 2369 73037	Connector 7P	1
D501	4 2029 71440	Diode, 1SS95	1
D502	4 2029 71440	Diode, 1SS95	1
D503	4 2029 71440	Diode, 1SS95	1
D504	4 2029 71440	Diode, 1SS95	1
D505	4 2029 71440	Diode, 1SS95	1
	4 2439 71350	Jumper Lead 3P (CN2)	1
	4 2439 71340	Jumper Lead 6P (CN12)	1
C501	CM2 2 2500 K00SV	Mylar 0.0022 µF 50V ±10%	1
C502	CM2 2 2500 K00SV	Mylar 0.0022 µF 50V ±10%	1
C503	CM1 5 3500 J00SV	Mylar 0.015 µF 50V ±5%	1
C504	CD1 0 5500 0001V	Electrolytic 1 µF 50V	1
C505	CD1 0 5500 0001V	Electrolytic 1 µF 50V	1
C506	CD3 3 7160 0001V	Electrolytic 330 µF 16V	1
C507	CC4 7 3500 ZG00C	Ceramic 0.047 µF 50V +80, −20%	1
C508	CC4 7 3500 ZG00C	Ceramic 0.047 µF 50V +80, −20%	1
IC501	206 5 2491 60110	IC, LB1601	1
Q501	203 5 7200 60850	Transistor, 2SA608	1
Q502	203 5 7200 60850	Transistor, 2SA608	1
Q503	203 5 7200 60850	Transistor, 2SA608	1
Q504	203 5 5100 53660	Transistor, 2SC536	1
Q505	203 5 5100 53660	Transistor, 2SC536	1
R505	RP1 0 2121 JH000	Pretty 1k ohm 1/8W ±5%	1
R506	RP1 0 4121 JH000	Pretty 100k ohm 1/8W ±5%	1
R507	RP3 9 1121 JH000	Pretty 390 ohm 1/8W ±5%	1
R509	RP2 2 2121 JH000	Pretty 2.2k ohm 1/8W ±5%	1
R510	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R511	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R512	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R513	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R514	RP1 0 3121 JH000	Pretty 10k ohm 1/8W ±5%	1
R515	RP2 2 3121 JH000	Pretty 22k ohm 1/8W ±5%	1
R516	RP4 7 4121 JH000	Pretty 470k ohm 1/8W ±5%	1
R517	RP8 2 0121 JH000	Pretty 82 ohm 1/8W ±5%	1
	MECHANISM		
Q9	4 2039 70410	Transistor, PH-101	1
	4 2269 33810	Photo P.C.B. (for Q9)	1
S7	4 2319 74170	Leaf Switch (Cassette)	1
S8	4 2319 74170	Leaf Switch (Eject)	1
S9	4 2319 70511	Micro Switch (Tab)	1
HD1	4 2429 71690	R/P Head	1
HD2	4 2429 71680	Erase Head	1
SL1	4 2649 70400	Play Solenoid	1
SL2	4 2649 70410	Rewind Solenoid	1

PARTS LIST (Continued)

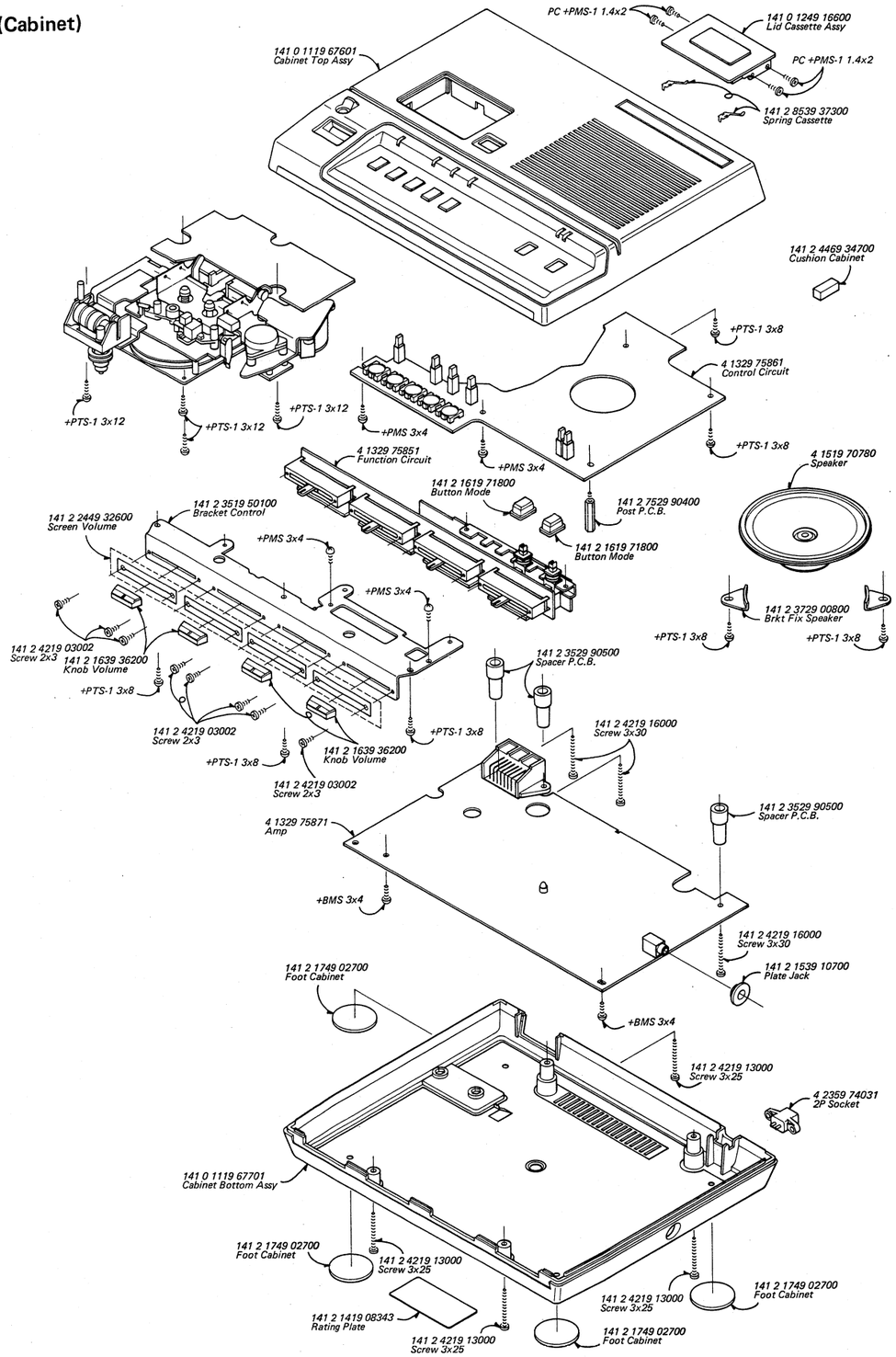
Ref. No.	Part No.	Description	Q'ty
	MECHANISM		
SL3	4 2649 70410	F. FWD Solenoid	1
	4 5279 71010	Motor	1
	141 0 1249 16000	Cassette Lid Assy	1
	141 0 3119 18200	Chassis Frame Assy	1
	141 0 3119 18300	Completed Chassis	1
	141 0 3519 18200	Select Bracket Assy	1
	141 0 3519 18400	Completed Clutch Base	1
	141 0 3519 18500	Motor Bracket Assy	1
	141 0 5219 06800	Flywheel Assy	1
	141 0 5319 05000	Take-up Reel Assy	1
	141 0 5319 05100	Supply Reel Assy	1
	141 0 5519 06400	Eject Gear Assy	1
	141 0 5519 07400	Sensor Gear Assy	1
	141 0 5519 07500	Counter Gear	1
	141 0 7419 24700	Idler Plate Assy	1
	141 0 7419 24800	Head Base Assy	1
	141 0 7419 24900	Base Lever Assy	1
	141 0 7419 25000	Select Lever Assy	1
	141 0 7419 25100	Damper Lever Assy	1
	141 0 7419 26100	Eject Lever Assy	1
	141 0 7439 07800	Pinch Roller Arm Assy	1
	141 0 7439 07900	Erase Head Arm Assy	1
	141 0 7439 08000	Pinch Roller Lever Assy	1
	141 0 7439 08100	Cassette Lock Assy	1
	141 0 8539 00900	Spring, Head Base Assy	3
	141 2 3519 48800	Motor Bracket	1
	141 2 3519 49100	Counter Bracket	1
	141 2 3519 49200	Cassette Plate	1
	141 2 3519 50200	Bracket, P.C.B.	1
	141 2 3519 52900	Cassette Switch Bracket	1
	141 2 3529 16700	Spacer	3
	141 2 4219 09000	Screw M2.0x2	3
	141 2 4219 21700	Screw M1.4x3.5	10
	141 2 4219 22900	Screw M1.4x4	1
	141 2 4359 19400	Micro Switch Insulator	1
	141 2 4459 24100	Motor Cushion	3
	141 2 4459 24200	Ring	3
	141 2 4459 26200	Cushion	1
	141 2 4469 00500	Flywheel Thrust	1
	141 2 4469 22800	Cushion	1
	141 2 4469 30900	Cushion	1
	141 2 4539 14900	Washer	2
	141 2 4539 17500	Washer	22
	141 2 4539 18000	Washer	1
	141 2 4539 18100	Washer	9
	141 2 4539 23000	Washer	3
	141 2 4539 23200	Washer	1
	141 2 4569 07100	Washer	4
	141 2 4729 04000	Lug	2
	141 2 4729 06500	Lug	2
	141 2 5419 01700	Pinch Roller	1
	141 2 5519 29300	Sensor Pulley	1
	141 2 5519 33800	Clutch Gear	4
	141 2 5519 33900	Step-up Pulley	1
	141 2 5519 34000	Rewind Gear	1
	141 2 5519 34100	Take-up Idler	1
	141 2 5519 34200	Damper Gear	1
	141 2 5519 34300	Roller	1
	141 2 5519 34400	Sensor Pulley	1
	141 2 5519 34500	Counter Pulley	1
	141 2 5519 34800	Capstan Pulley	1
	141 2 5649 14700	Drive Belt	1
	141 2 5649 14800	Fast wind Belt	1
	141 2 5649 15000	Sensor Belt	1
	141 2 5649 15100	Counter Belt	1
	141 2 7139 01100	Brake	1
	141 2 7419 64500	Play Lever	1
	141 2 7419 64600	Cassette Lever	1
	141 2 7419 64900	Head Lever	1
	141 2 7419 65200	Lock Base Lever	1

Ref. No.	Part No.	Description		Q'ty
	MECHANISM			
	141 2 7439 18600	Idler Arm		1
	141 2 7439 18900	Rewind Select Arm		1
	141 2 7439 19000	F. FWD Select Arm		1
	141 2 7439 19100	Brake Arm		1
	141 2 7439 19300	Release Arm		1
	141 2 7439 19600	Tab Arm		1
	141 2 7439 19900	Cassette Switch Arm		1
	141 2 7519 46300	Cassette Pin Lock		1
	141 2 7519 46800	Spacer, Lid		1
	141 2 7519 46900	Spacer, Cassette Lid		1
	141 2 7519 47600	Play Roller		2
	141 2 7519 47700	Roller		2
	141 2 7519 48200	Spacer		4
	141 2 7519 48300	Spacer, Clutch		3
	141 2 7529 88600	Spacer, Link		7
	141 2 7539 02200	Spacer, Eject		1
	141 2 8119 08100	Counter		1
	141 2 8219 26700	Bearing Holder		3
	141 2 8259 08000	Ball		6
	141 2 8519 56200	Spring, Cum		2
	141 2 8519 89300	Spring, Azimuth		1
	141 2 8519 89400	Spring, Clutch		2
	141 2 8519 90000	Spring, Lock Arm		1
	141 2 8519 90100	Spring, Lid		1
	141 2 8519 90200	Spring, Lock Base		1
	141 2 8519 90300	Spring, Pinch Roller Arm		1
	141 2 8519 90400	Spring, Cassette Lock		1
	141 2 8519 90500	Spring, Pinch Roller		1
	141 2 8519 90600	Spring, Interlock		1
	141 2 8519 92100	Spring, Idler Arm		1
	141 2 8519 92200	Spring, Idler Lever		1
	141 2 8519 92300	Spring, Brake		1
	141 2 8519 92500	Spring, Damper Lever		1
	141 2 8519 92600	Spring, Base Lever		1
	141 2 8519 92700	Spring, Head Base		1
	141 2 8539 37100	Spring, Cassette		1
	141 2 8539 40900	Spring, Rewind Select		1
	141 2 8539 41000	Spring, F.F. Select		1
	101 3 1302 00211	Screw, Pan Hd.	+M2.0x2	1
	101 3 1302 00311	Screw, Pan Hd.	+M2.0x3	7
	101 3 1302 00411	Screw, Pan Hd.	+M2.0x4	10
	101 3 1302 00811	Screw, Pan Hd.	+M2.0x8	4
	101 3 1303 00311	Screw, Pan Hd.	+M3.0x3	4
	101 3 1303 00411	Screw, Pan Hd.	+M3.0x4	4
	101 3 1702 01011	Screw, Bind Hd.	+M2.0x10	2
	106 3 1102 00011	Nut-1	M2.0	1
	112 3 1301 50082	E Ring	M1.5	5
	112 3 1302 00082	E Ring	M2.0	3
	127 3 1314 02013	PC Screw, Pan Hd.-1	+M1.4x2.0	2
	127 3 1314 03013	PC Screw, Pan Hd.-1	+M1.4x3.0	3
	128 3 1314 01613	PC Screw, Pan Hd.-3	+M1.4x1.6	10
	128 3 1314 02513	PC Screw, Pan Hd.-3	+M1.4x2.5	3
	128 3 1317 02513	PC Screw, Pan Hd.-3	+M1.7x2.5	1
	128 3 1317 04013	PC Screw, Pan Hd.-3	+M1.7x4.0	2
	128 3 1317 05013	PC Screw, Pan Hd.-3	+M1.7x5.0	3

NOTES:
1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.
3. PC Screw = Precision Instrument Screw

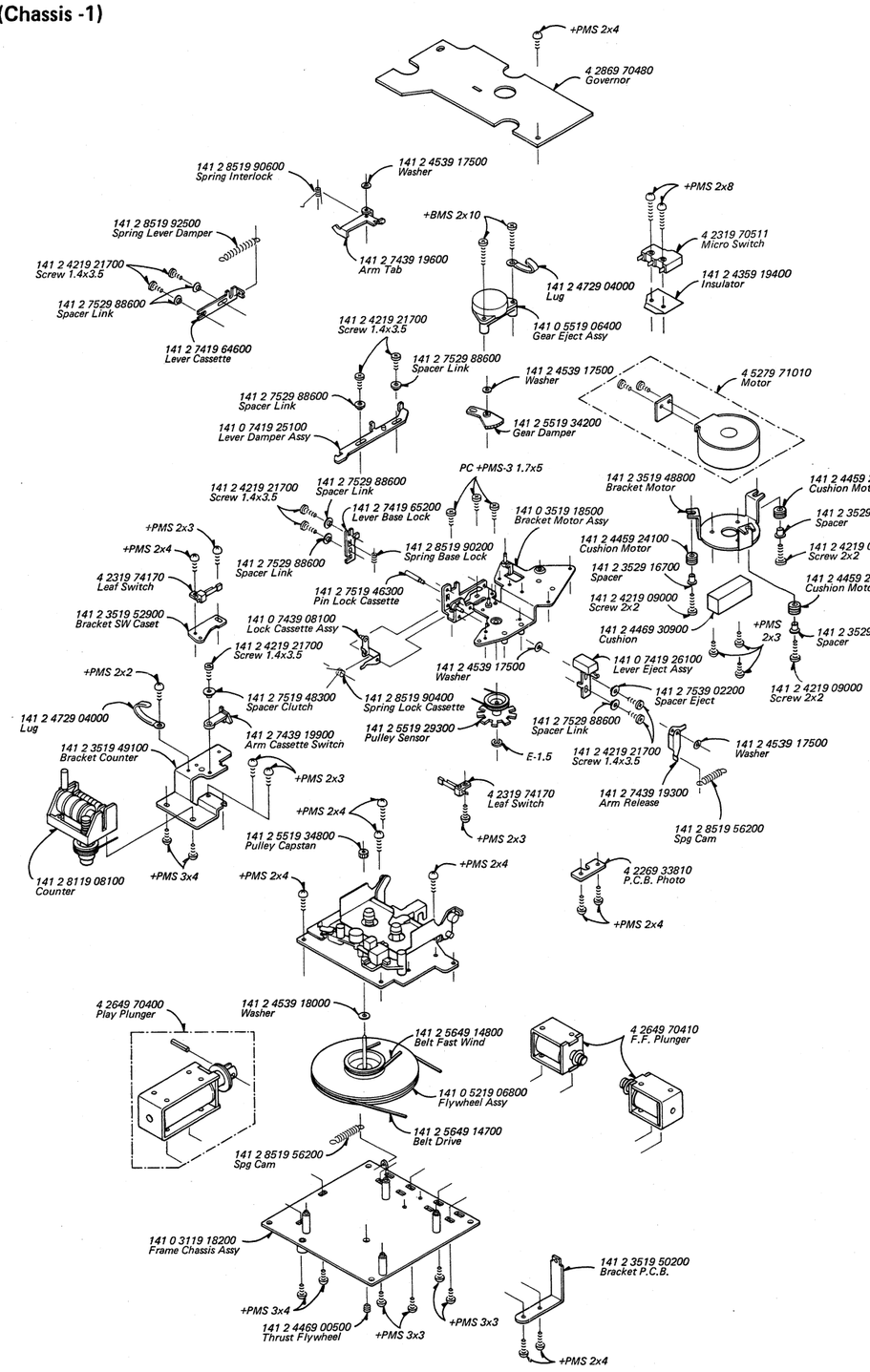
EXPLODED VIEW

(Cabinet)



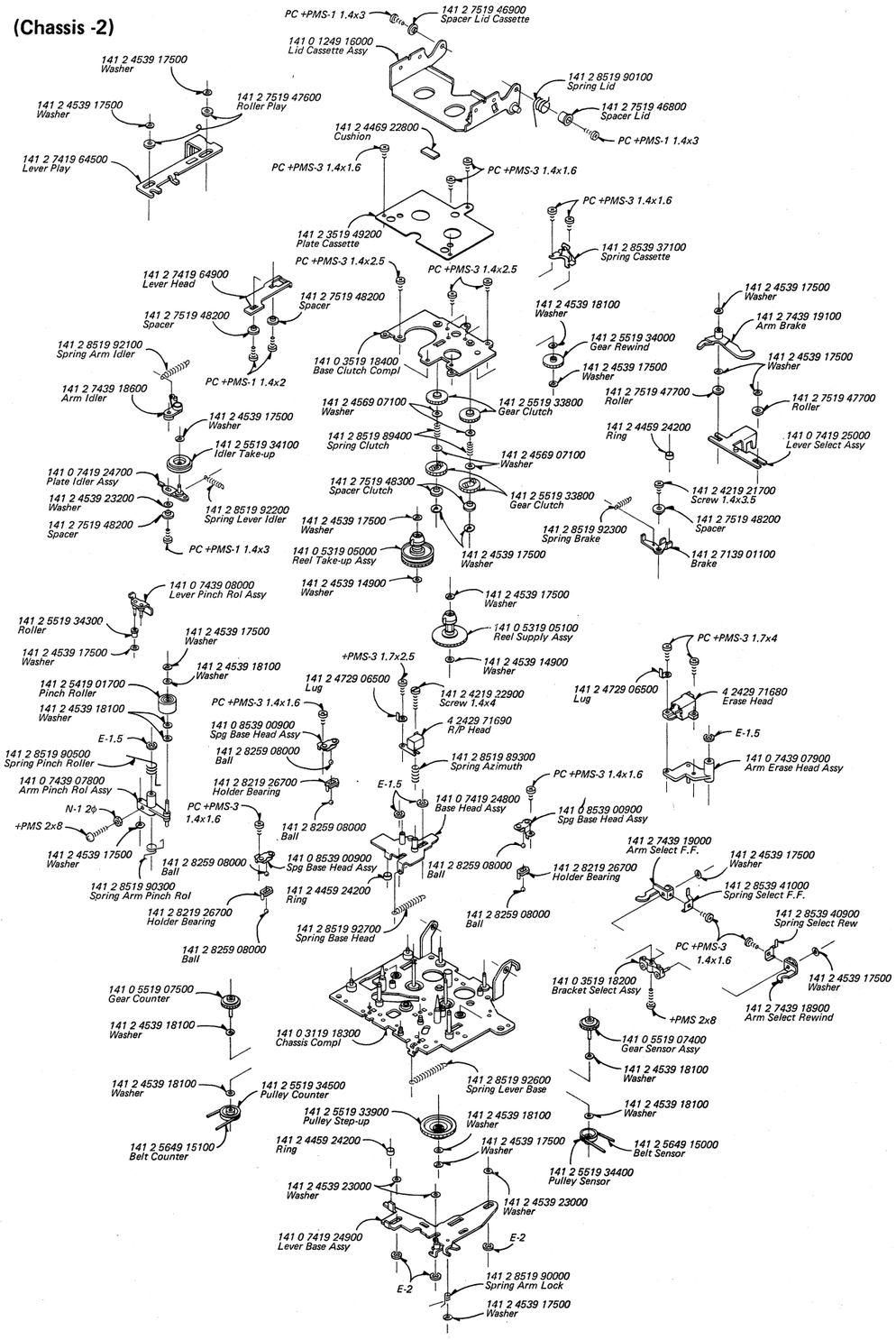
EXPLODED VIEW (Continued)

(Chassis -1)



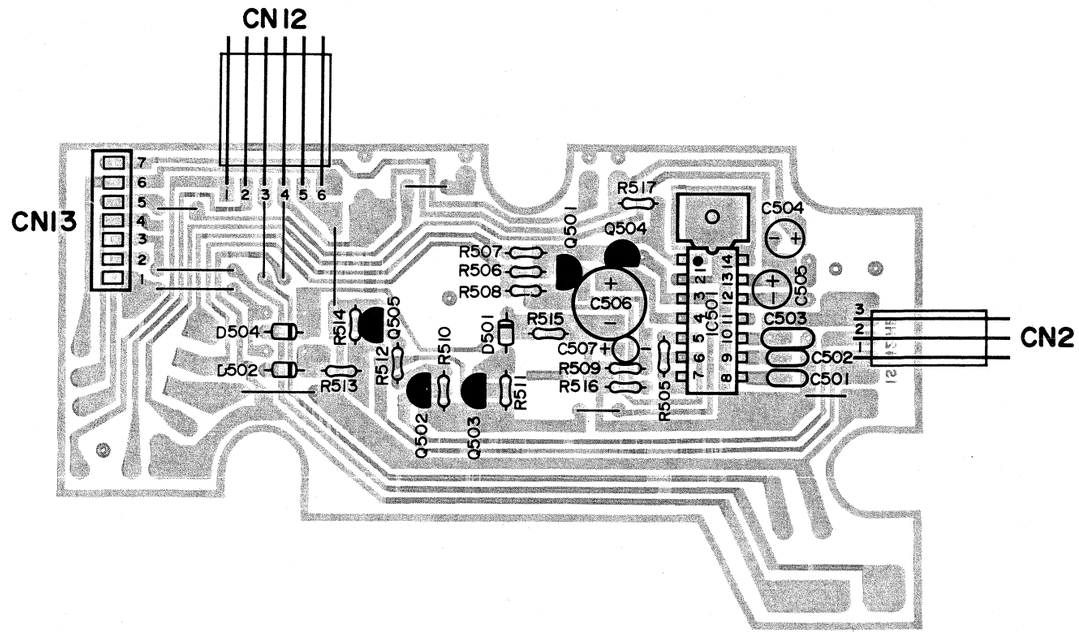
EXPLODED VIEW (Continued)

(Chassis -2)

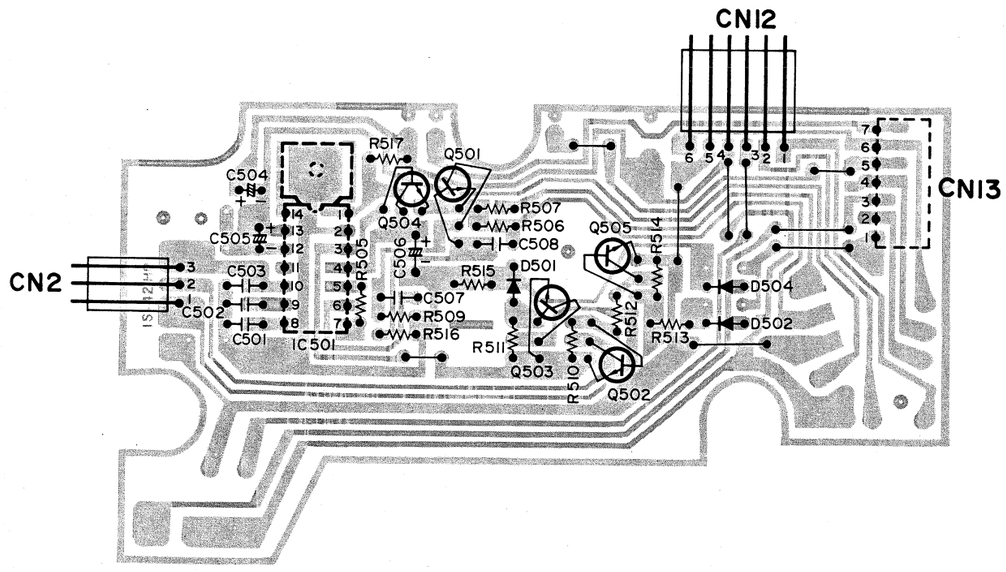


GOVERNOR P.C.BOARD

(Top View)

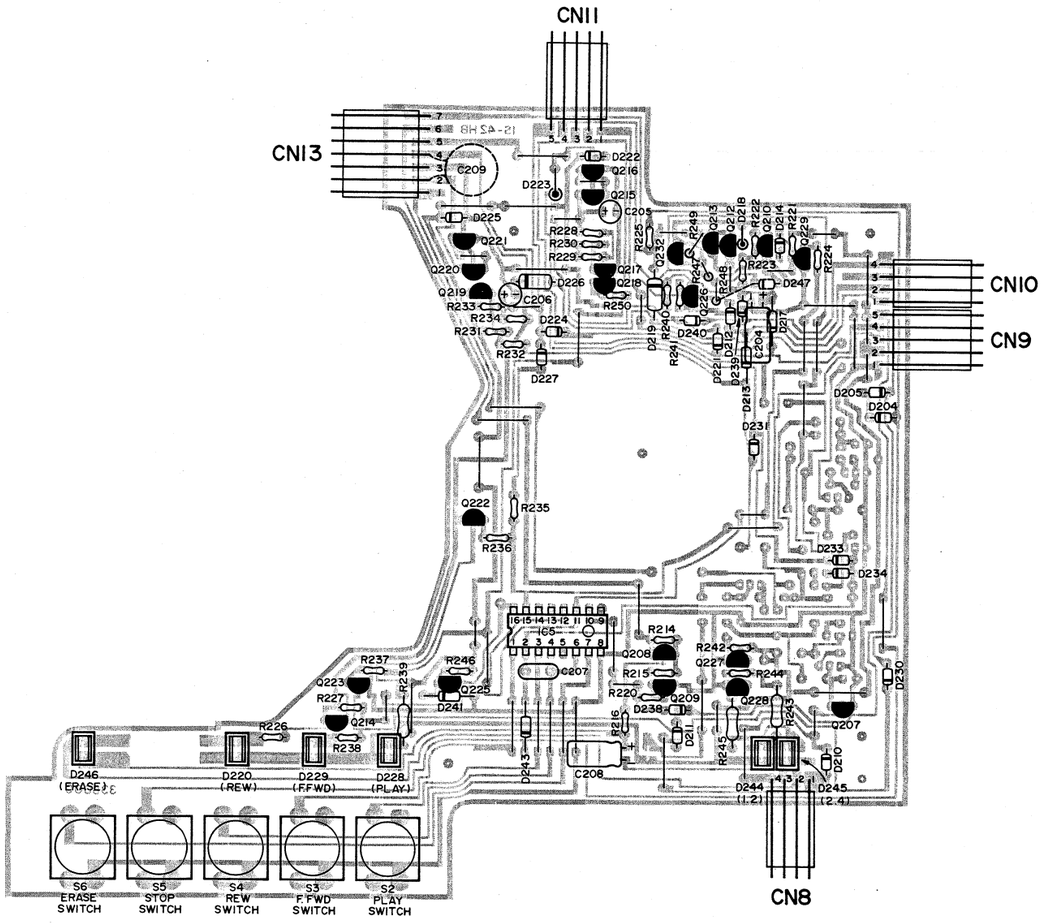


(Bottom View)

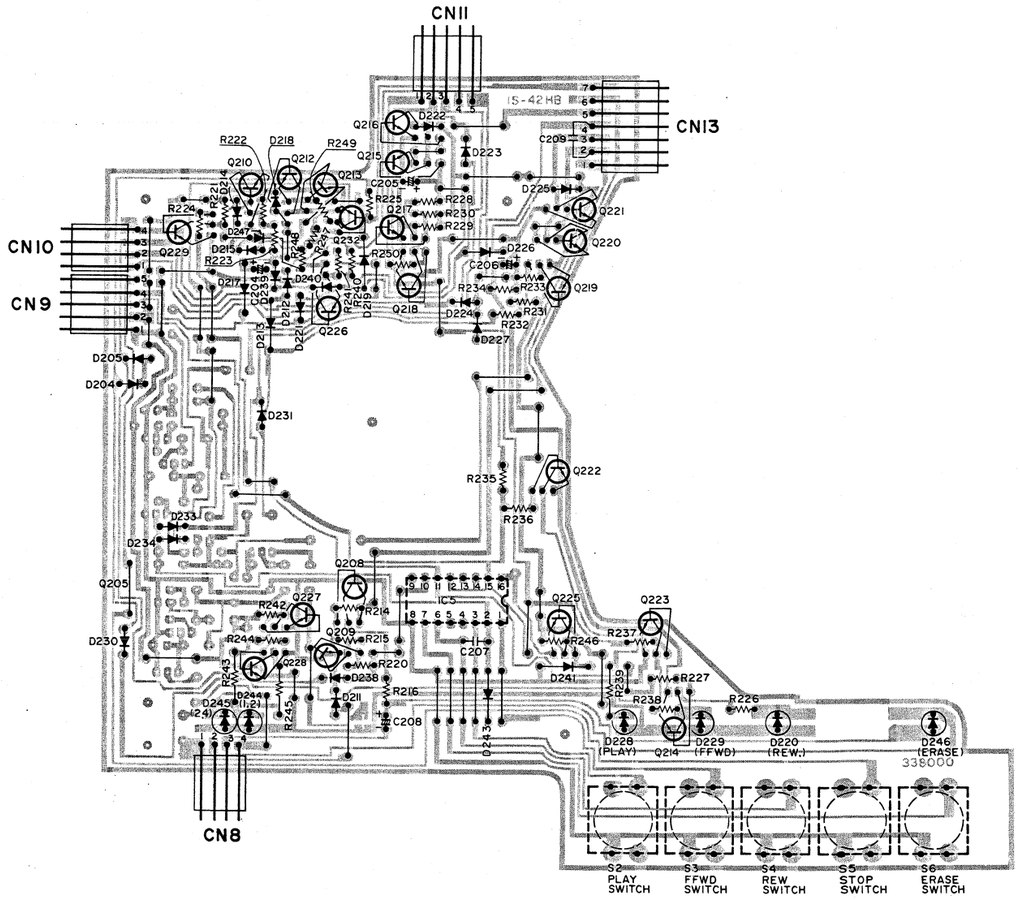


CONTROL P.C.BOARD

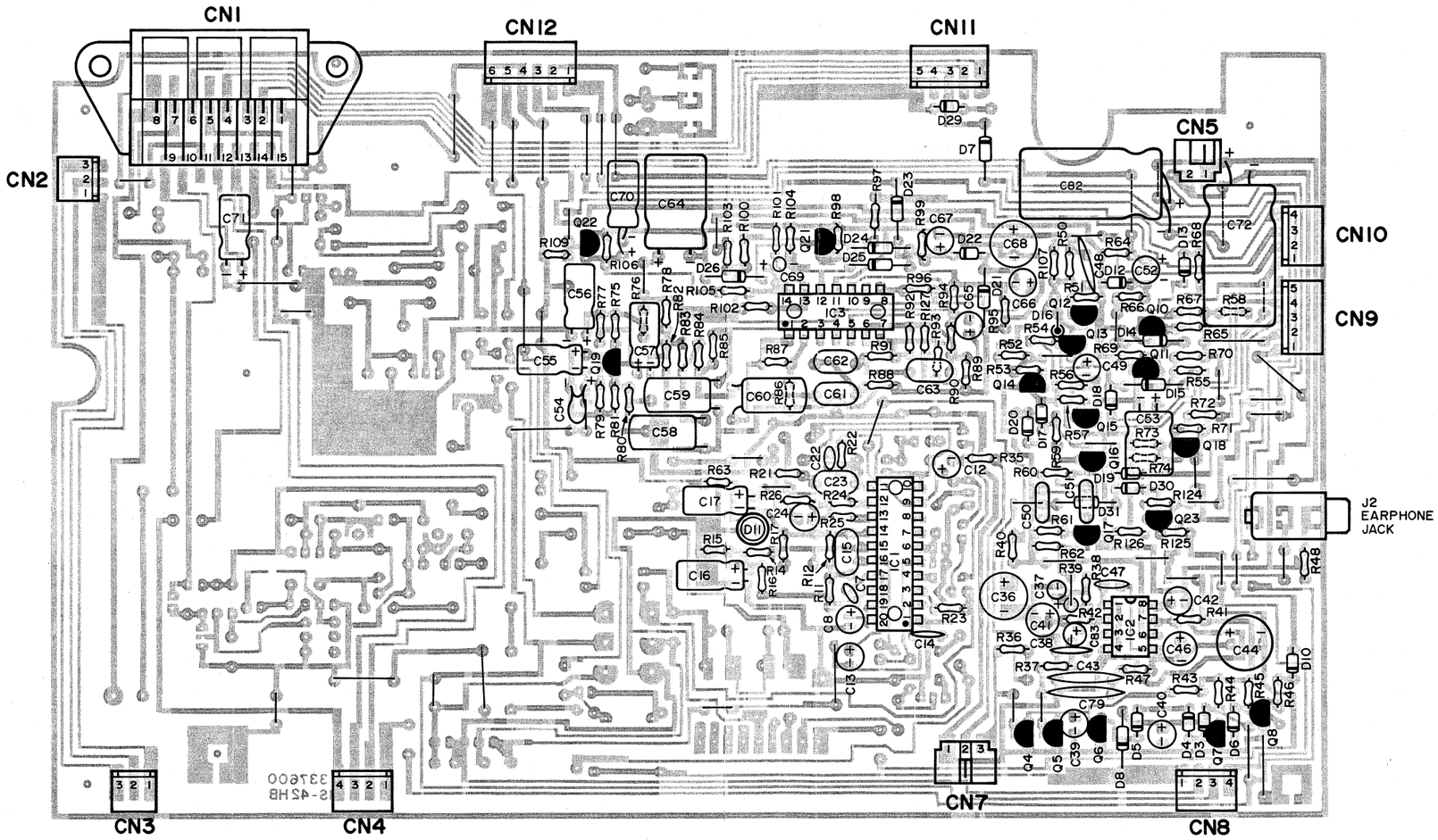
(Top View)



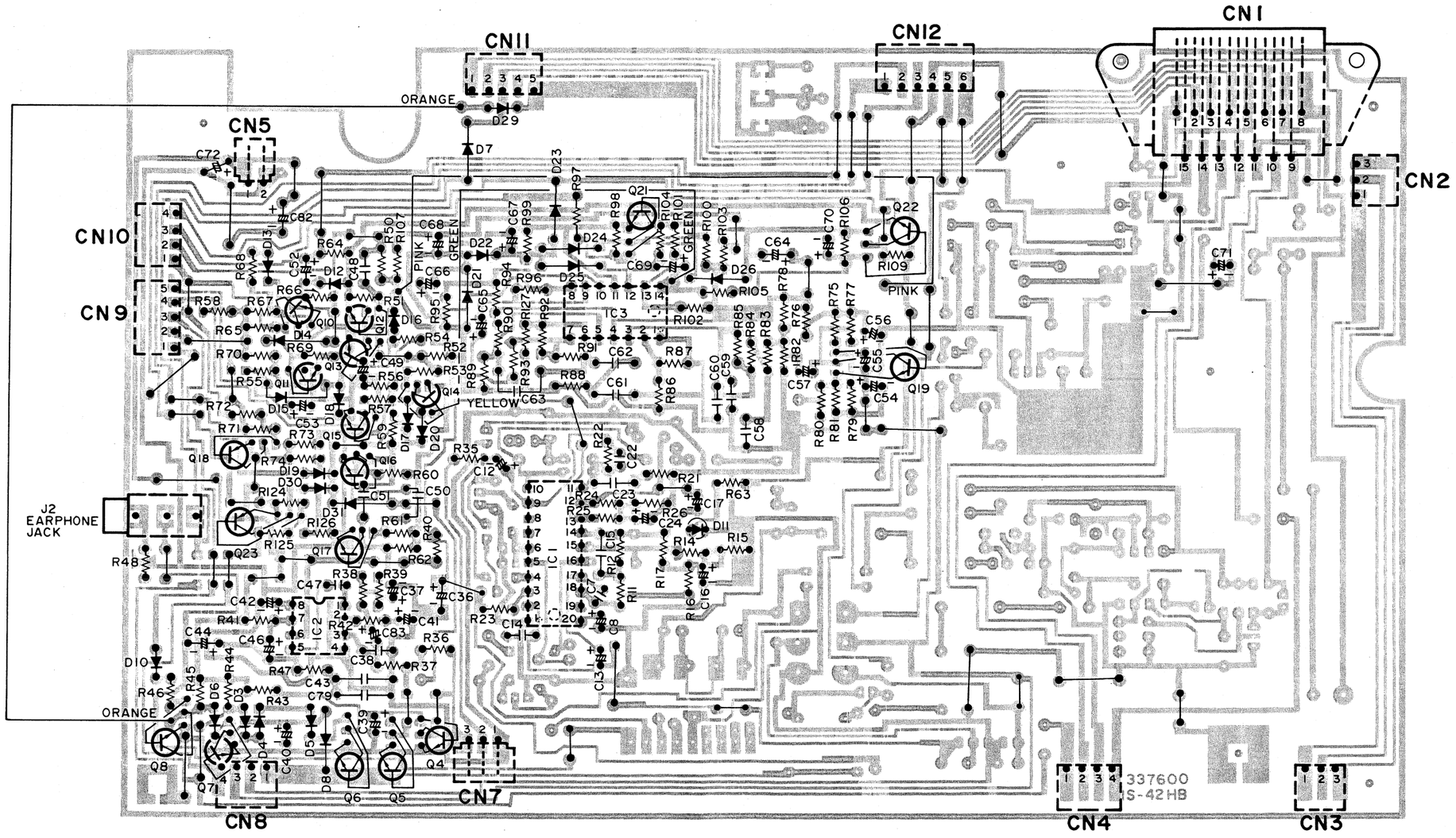
(Bottom View)



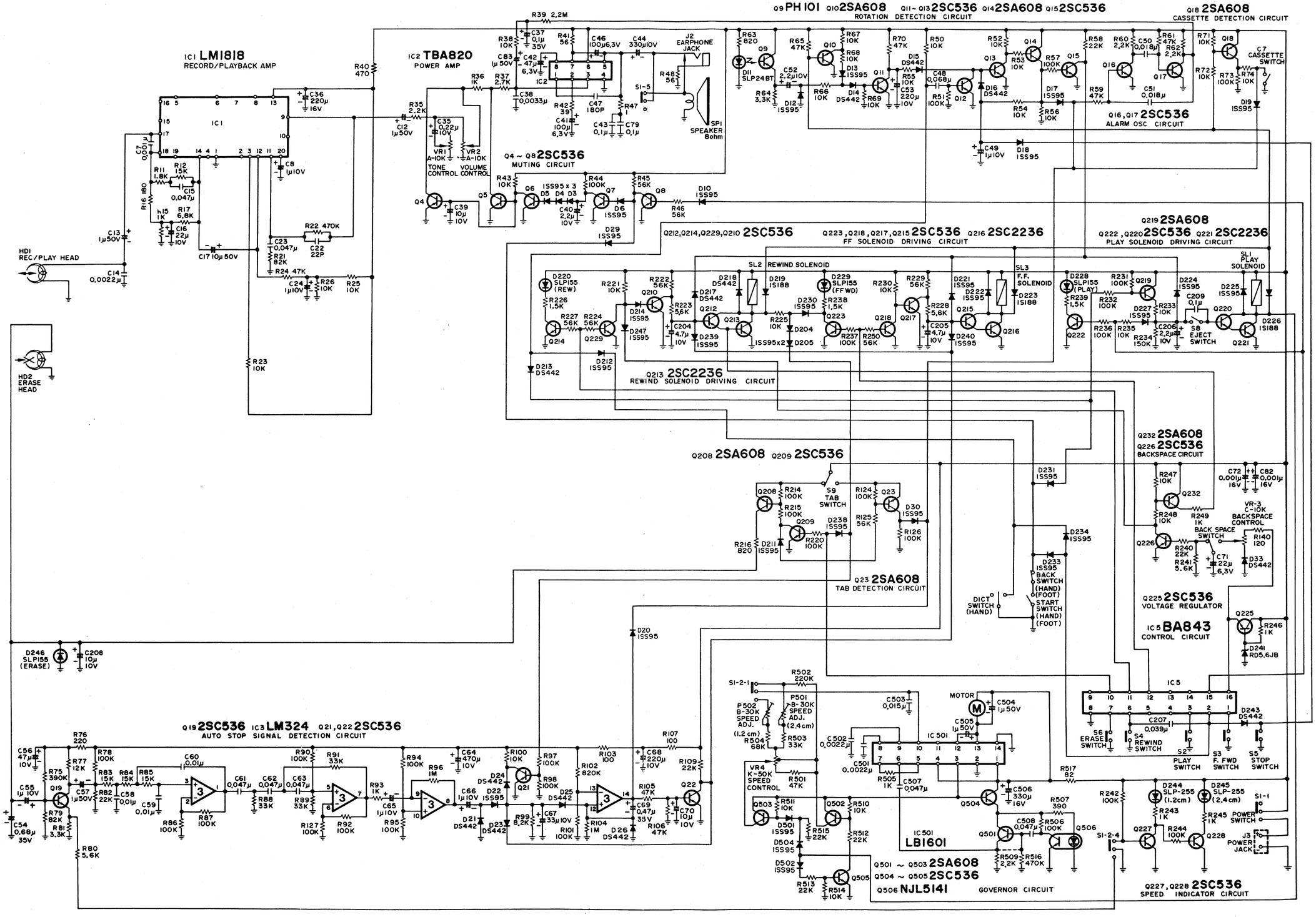
AMPLIFIER P.C.BOARD(Top View)



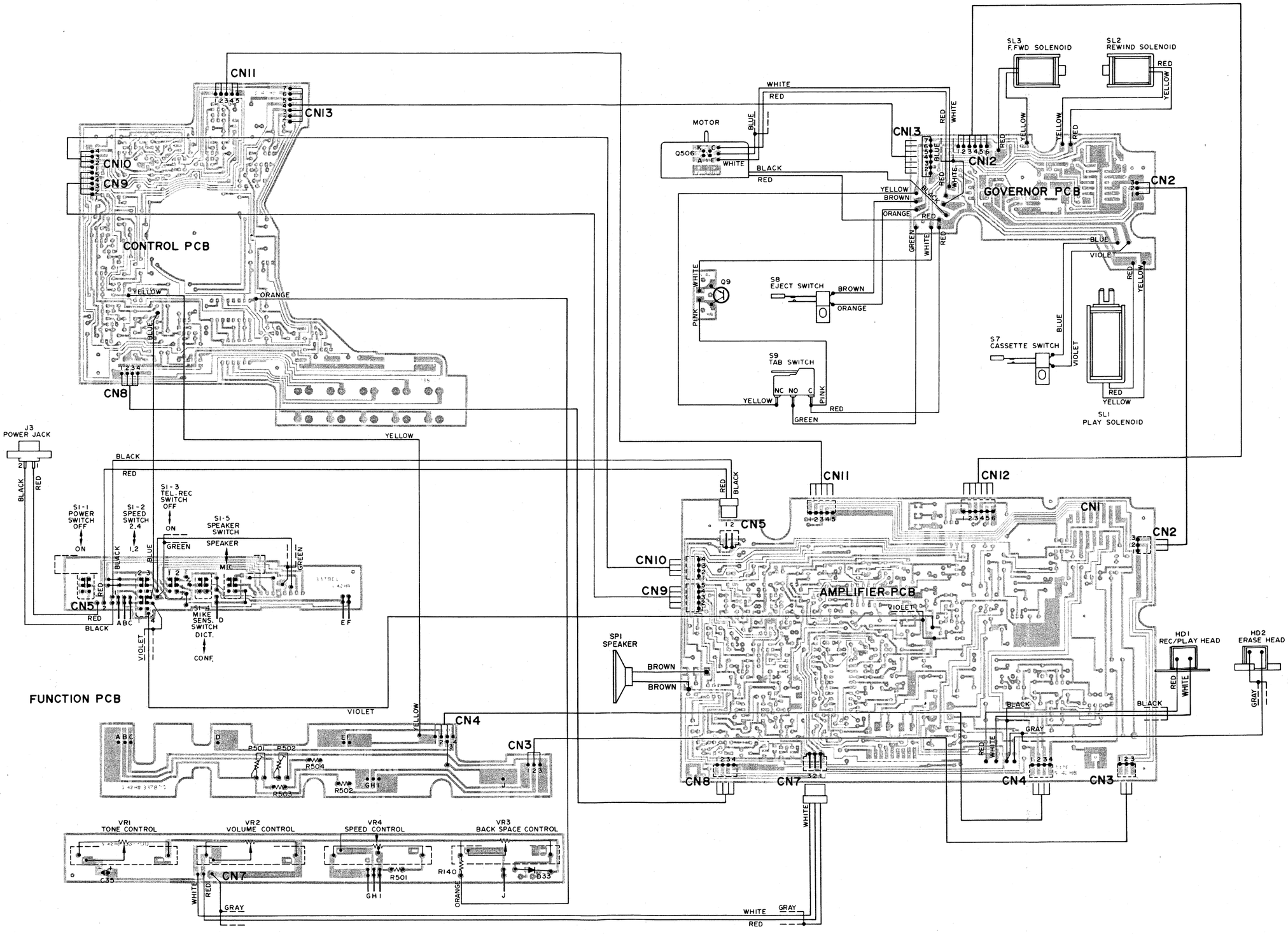
AMPLIFIER P.C.BOARD(Bottom View)



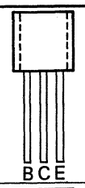
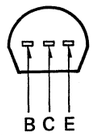
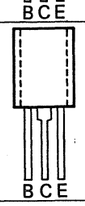
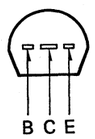
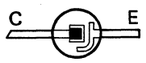
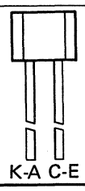
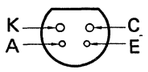
SCHEMATIC DIAGRAM



WIRING DIAGRAM



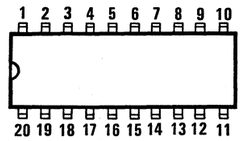
IC & TRANSISTOR LEAD IDENTIFICATION

FRONT VIEW	BOTTOM VIEW	TRANSISTOR & PHOTO COUPLER
		2SC536 2SA608
		2SC2236
	——	PH101
		NJL5141

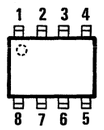
TERMINAL NAMES

B⇒ BASE	A⇒ ANODE
C⇒ COLLECTOR	K⇒ CATHODE
E⇒ EMITTER	

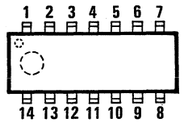
IC LM1818 BOTTOM VIEW



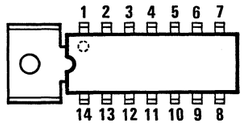
IC TBA820 BOTTOM VIEW



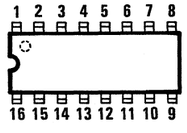
IC LM324 BOTTOM VIEW



IC LB1601 BOTTOM VIEW



IC BA843 BOTTOM VIEW



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